

WHAT IS CLAIMED IS:

- 1. A tide and wave powered generation apparatus comprising a piping system, a pump station, a low level reservoir, a high level reservoir and a hydraulic turbine generator, wherein the piping system connects the low level reservoir, the pump station, the high level reservoir, the hydraulic turbine generator and the low level reservoir in sequence; the pump station comprises an oil pump engaged with a chain, each end of which is respectively connected with a buoyancy plate and a counter balance weight; the oil pump is coupled to a flywheel and a gearbox associated therewith via a first transmission shaft; the flywheel and the gearbox are associated with a pressurizing pump via a second transmission shaft; and the buoyancy plate, the chain, the counter balance weight and the pump station are constructed as a motive power of delivering water from the low level reservoir to the high level reservoir.**
- 2. The tide and wave powered generation apparatus as claimed in Claim 1, wherein the low level reservoir is the sea.**
- 3. The tide and wave powered generation apparatus as claimed in Claim 1, wherein the low level reservoir is a separate reservoir from the sea.**